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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,413	01/16/2002	Charles Eric Pearce	PGI6044P0321US	6108
32116	7590 04/22/2005	EXAMINER		
WOOD, PHILLIPS, KATZ, CLARK & MORTIMER 500 W. MADISON STREET			TORRES VELAZQUEZ, NORCA LIZ	
SUITE 3800	SON STREET		ART UNIT	PAPER NUMBER
CHICAGO, II	L 60661		1771	

DATE MAILED: 04/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
	10/050,413	PEARCE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Norca L. Torres-Velazquez	1771			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 27 Ja	anuary 2005.				
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) ☐ Claim(s) 1-6 and 8-10 is/are pending in the appearance of the above claim(s) 1-4 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 5,6 and 8-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>7/02/04</u>. 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed December 21, 2004 have been fully considered but they are not persuasive.

a. Applicants argue that the Kirayoglu reference fails to teach applicant's filter media as claimed and refer to Examples 4 and Table IV of Kirayoglu arguing that it fails to exhibit the specified, normalized machine-direction and cross-direction strip tensile characteristics set forth in the claims.

Applicant's arguments with regards to the Kirayoglu are noted, however, the arguments are taking the teachings of Kirayoglu in a vacuum instead of the combination of Kirayoglu in view of Haid et al. as stated in previous action. It is noted that the Kirayoglu reference fails to teach heat setting, which is provided by the Haid et al. reference with the purpose of increasing the fabric, durability and abrasion resistance. It is noted that both reference use the same type of polyester staple fibers, therefore, the enhanced properties produced by the heat-setting treatment taught by Haid et al. would be recognized in the art of Kirayoglu. Therefore, it is the Examiner's interpretation that the application of such treatment to the fabric of Kirayoglu will inherently provide the presently claimed properties to the fabric.

b. Applicants further argue that Kirayoglu precludes heat-treatment since the reference specifically requires that the disclosed fabric has not been subjected to a shrinking operation.

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It is noted that the heat treatment taught by Haid et al. is a heat setting treatment in which the fabric is heated to a temperature above the melting point of the fusible fibers to remelt the fusible fibers and increase the fabric durability and abrasion resistance. The Haid et al. reference also uses polyester staple fibers. Haid et al. does not suggest that the heat-setting treatment will produce shrinking of the fabric but melting the polyester fusible fibers for bonding purposes. (Refer to Col. 4, lines 36-42 and Col. 3, lines 21-23) Applicants have not shown evidence that the heat treatment of Haid et al. would shrink the fabric of the Kirayoglu reference. Although the combination of Kirayoglu and Haid et al. does not explicitly teach the claimed Mullen burst strength, the MD and CD shrinkage, the MD and CD strip tensile strength of the fabric it is reasonable to presume that these properties are inherent to the product of Kirayoglu in view of the teachings of Haid et al. Support for said presumption is found in the use of like materials (i.e. same fabric construction, same polyester staple fibers, same basis weight and treated by a heat setting process). The burden is upon Applicant to prove otherwise. In re Fitzgerald 205 USPO 594. In addition, the presently claimed property of Mullen burst strength, the MD and CD shrinkage, the MD and CD strip tensile strength of the fabric would obviously have been present one the fabric of Kirayoglu treated with the heat-setting process of Haid et al. is provided. Note In re Best, 195 USPQ at 433, footnote 4 (CCPA 1977) as to the providing of this rejection made above under 35 USC 102. Reliance upon inherency is not improper even though rejection is based on Section 103 instead of Section 102. In re Skoner, et al. (CCPA) 186 USPQ 80

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 5-6 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over KIRAYOGLU (US 4,556,601) in view of HAID et al. (US 5,240,764).

KIRAYOGLU discloses a heavyweight, nonapertured, nonwoven fabric of hydraulically entangled synthetic organic staple fibers with a unit weight of 200 to 850 g/m² (6 to 25 oz/yd²). (Abstract, and Column 2, lines 25-28) The reference teaches the use of staple fibers of poly (ethylene terephthalate). (Column 2, lines 47-50) The reference further teaches that such heavyweight fabrics are desired in uses such as heavy-duty gas filtration. (Column 1, lines 55-

56) However, KIRAYOGLU is silent to heat-treat the filter media.

HAID et al. discloses a process to make a spunlaced nonwoven fabric that includes hydraulically needling the fibers of the web to entangle them in a three-dimensional state and teaches heat setting the fibers to stabilize the web surface and increase the web durability and abrasion resistance. (Column 2, lines 6-32) The reference also teaches using polyester staple fibers. (Column 3, lines 4-15) HAID et al. teaches that the heat treatment involves heating the fibers to a temperature above their melting point to increase the fabric durability and abrasion resistance. (Col. 4, lines 36-42)

Since both references are directed to hydroentangled nonwoven webs, the purpose disclosed by HAID et al. would have been recognized in the pertinent art of KIRAYOGLU.

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Although the combination of Kirayoglu and Haid et al. does not explicitly teach the claimed Mullen burst strength, the MD and CD shrinkage, the MD and CD strip tensile strength of the fabric it is reasonable to presume that these properties are inherent to the product of Kirayoglu in view of the teachings of Haid et al. Support for said presumption is found in the use of like materials (i.e. same fabric construction, same polyester staple fibers, same basis weight and treated by a heat setting process). The burden is upon Applicant to prove otherwise. In re Fitzgerald 205 USPQ 594. In addition, the presently claimed property of Mullen burst strength, the MD and CD shrinkage, the MD and CD strip tensile strength of the fabric would obviously have been present one the fabric of Kirayoglu treated with the heat-setting process of Haid et al. is provided. Note In re Best, 195 USPQ at 433, footnote 4 (CCPA 1977) as to the providing of this rejection made above under 35 USC 102. Reliance upon inherency is not improper even though rejection is based on Section 103 instead of Section 102. In re Skoner, et al. (CCPA) 186 USPQ 80.

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the nonwoven fabric of KIRAYOGLU and provide with a heat-treatment with the motivation of increasing the web durability and abrasion resistance as disclosed by HAID (Column 2, lines 6-32).

Double Patenting

3. Claims 5-6 and 8-10 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 4-9 of copending Application No. 10/778,661. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications claim a filter media with the same

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structural limitations and are made by similar processes. Therefore, they must possess the same

physical properties.

This is a provisional obviousness-type double patenting rejection because the conflicting

claims have not in fact been patented.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Norca L. Torres-Velazquez whose telephone number is 571-272-

1484. The examiner can normally be reached on Monday-Thursday 8:00-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Norca L. Torres-Velazquez

Examiner

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April 17, 2005